ABSTRACT

The invention relates to a microporous crystalline zeolite material having the empirical formula

$$x(M_{1/n}XO_2) : yYO_2 : (1-y)SiO_2$$

wherein x has a value less than 0.02; y has a value less than 0.1; M is at least an inorganic cation with a +n charge; X is at least a chemical element having oxidation state +3, preferably selected from the group consisting of Al, Ga, B, Cr, Fe, and Y is at least a chemical element with oxidation state +4, preferably selected from the group consisting of Ge, Ti, Sn, V. The inventive material can be obtained by means of a process comprising: preparing a laminar precursor, crystallized from a reaction mixture; swelling the precursor in a solution in order to obtain a swollen laminar material; which is then washed and dried to obtain a swollen solid; delaminating the solid to obtain a delaminated material in suspension; separating the delaminating material and eliminating the organic remnants by cationic exchange and/or calcination.